

Amdt. dated April 7, 2010

Reply to Office Action of November 12, 2009

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A reciprocating compressor, comprising:

a casing including a suction pipe, through which a fluid is introduced from outside, and a discharge pipe, through which the fluid is discharged outside, that forms a predetermined internal space;

a compressor main body positioned in the casing, that compresses the fluid introduced through the suction pipe with a linear reciprocating motion of a piston and discharges the compressed fluid through the discharge pipe; and

a supporting device including a plurality of coil springs that connects the compressor main body to the casing, wherein each of the plurality of coil springs includes a tightly wound upper end coils-part fixed to one surface of the compressor main body, and a tightly wound lower end part fixed to one surface of the casing, respectively, and an inner coil having at least one part which is tightly wound and positioned between the end coils, an inner part formed between the tightly wound upper end part and the tightly wound lower end part, wherein the inner-coil part comprises:

a first elastic part attached to the tightly wound upper end part with each round of the first elastic part wound at a first predetermined pitch pitches from the end coil which is fixed

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~~to the one surface of the compressor main body;~~

a second elastic part attached to the tightly wound lower end part with each round of the second elastic part wound at a second predetermined pitch pitches from the end coil which is fixed to the one surface of the casing, wherein the predetermined pitches of the first elastic part and the predetermined pitches of the second elastic part are different; and

a mass part tightly wound between the first elastic part and the second elastic parts part, wherein the first predetermined pitch and the second predetermined pitch are different at a same round from each end of the mass part.

2-14. (Canceled).

15. (Currently Amended) The compressor of claim 1, wherein the first elastic part and the second elastic parts part are wound respectively at regular pitches, and wherein the regular pitches are different from each other.

16. (Currently Amended) The compressor of claim 1, wherein the first elastic part and the second elastic parts part are wound at pitches that increase toward the mass part, and wherein increasing ratios of the pitches of the first elastic part and the pitches of the second elastic part are different from each other.

17. (Currently Amended) The compressor of claim 1, wherein the first elastic part and the second elastic parts part are wound at pitches that decrease toward the mass part, and wherein decreasing ratios of the pitches of the first elastic part and the pitches of the second elastic part are different from each other.

18. (Currently Amended) The compressor of claim 1, wherein the first elastic part and the second elastic parts part are wound at pitches that increase and decrease alternately toward the mass part, and wherein increasing and decreasing ratios of the pitches of the first elastic part and the pitches of the second elastic part are different from each other.

19. (Currently Amended) The compressor of claim 1, wherein one of the first elastic part and the second elastic parts part is wound at regular pitches and the other of the first elastic part and the second elastic parts part is wound at pitches that increase toward the mass part.

20. (Currently Amended) The compressor of claim 1, wherein one of the first elastic part and the second elastic parts part is wound at regular pitches and the other of the first elastic part and the second elastic parts part is wound at pitches that decrease toward the mass part.

21. (Currently Amended) The compressor of claim 1, wherein one of the first elastic part and the second elastic parts part is wound at regular pitches and the other of the first elastic

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part and the second elastic ~~parts~~ part is wound at pitches that increase and decrease alternately toward the mass part.